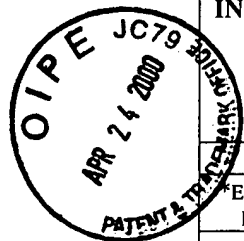


RECEIVED



<b>INFORMATION DISCLOSURE CITATION</b> (Use several sheets if necessary)	Atty. Docket No. 22010-127	Serial No. 09/193,058	APR 26 2000
	Applicant Feng et al.		
	Filing Date November 16, 1998	Group 2747	Group 2700

**U.S. PATENT DOCUMENTS**

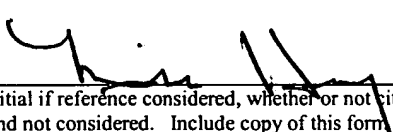
Examiner Initial	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	Filing Date If appropriate
MOH	4,025,721	5/24/77	Graupe et al.	179/1		
MOH	4,611,598	9/16/86	Hortmann et al.	128/419		
MOH	5,706,352	1/6/98	Engbretson et al.	381/684		
MOH	5,768,392	6/16/98	Graupe	381/94.3		
MOH	5,793,875	8/11/98	Lehr et al.	381/68.1		

**FOREIGN PATENT DOCUMENTS**

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						Yes	No

Examiner <i>Y. H. H.</i>	Date Considered 9/3/03
-----------------------------	---------------------------

\*Examiner: initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<b>INFORMATION DISCLOSURE CITATION</b> (Use several sheets if necessary)		Atty. Docket No. 22010-127	Serial No. New application
		Applicant Feng et al.	
		Filing Date November 16, 1998	Group
<b>U.S. PATENT DOCUMENTS</b>			
*Examiner Initial		<b>PUBLICATION</b>	
MOH		<u>An Information-Maximization Approach to Blind Separation and Blind Deconvolution:</u> Anthony J. Bell, Terrence J. Sejnowski; Article, Howard Hughes Medical Institute, Computational Neurobiology Laboratory, The Salk Insitute; pp. 1130-1159	
		<u>On the Potential of Fixed Arrays for Hearing Aids:</u> R. W. Stadler and W. M. Rabinowitz; Research Laboratory of Electronics, J. Acoust. Soc. Am.; September 1993.	
		<u>Development of a Directional Hearing Instrument Based on Array Technology:</u> Wim. Soede, Augustinus J. Berkhoust and Frans A. Bilsen; J. Acoust. Soc. Am., August 1993.	
		<u>Modeling Human Sound-Source Localization and the Cocktail-Party-Effect:</u> Markus Bodden; Acta Acustica; February/April, 1993; pp. 43-55.	
		<u>Localisation and Separation of Simultaneous Voices with Two Microphones:</u> D. Banks; IEE Proceedings-1, Vol. 140, No. 4, August 1993.	
		<u>Auditory Demonstrations of a Cocktail-Party-Processor:</u> M. Bodden; Acustica, Vol. 82, 1996, pp. 356-357.	
		<u>Reducing Correlated Noise in Digital Hearing Aids:</u> Nathaniel A. whitmal, Janet C. rutledge, and Jonathan Cohen; IEEE Engineering in Medicine and Biology; September/October 1996, pp. 88-96	
		<u>Extension of a Binaural Cross-Correlaton Model by Contralateral Inhibition. I. Simulation of a Lateralization for Stationary Signals;</u> W. Lindemann; J. Acoust. Soc. Am., December 1986; pp. 1608-1622.	
Examiner 		Date Considered 2/13/07	
*Examiner: initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.			



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)			<i>Complete if Known</i>	
			Application Number	09/193,158
			Filing Date	November 16, 1998
			First Named Inventor	FENG
			Group Art Unit	2747
Examiner Name				
Sheet 1 of 4	Attorney Docket Number	22010-127	Technology Center 2600	

**RECEIVED JUN 23 2003**

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Application of Cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
MOH		4,207,441	06-10-1980	Ricard et al.	
MOH		4,304,235	12-08-1981	Kaufman	
MOH		4,334,740	06/15/1982	Wray	
MOH		4,354,064	10-12-1982	Scott	
MOH		4,536,887	08/20/1985	Kaneda et al.	
MOH		4,790,019	12-06-1988	Hueber	
MOH		4,845,755	07-04-1989	Busch et al.	
MOH		4,858,612	08-22-1989	Stocklin	
MOH		4,918,737	04-17-1990	Luethi	
MOH		4,987,897	01-29-1991	Funke	
MOH		4,988,981	01-29-1991	Zimmerman et al.	
MOH		5,012,520	04-30-1991	Steeger	
MOH		5,047,994	09-10-1991	Lenhardt et al.	
MOH		5,113,859	05-19-1992	Funke	
MOH		5,245,556	09/14/1993	Morgan et al.	
MOH		5,285,499	02-08-1994	Shannon et al.	
MOH		5,259,032	11-02-1993	Perkins et al.	
MOH		5,321,332	06-14-1994	Toda	

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Application of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
MOH		WO 98/26629	06-18-1998			
MOH		EP 0 802 699	10-22-1997			
MOH		EP 0 824 889 A1	02-25-1998			
		DE 195 41 648 C2	05-10-2000			
		DE 28 23 798	09-13-1979			
		DE 33 22 108 A1	12-20-1984			

Examiner Signature	<i>[Signature]</i>	Date Considered	9/3/03
--------------------	--------------------	-----------------	--------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, D.C. 20231.



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 2 of 4

Complete if Known

Application Number 09/193,058

Filing Date November 16, 1998

First Named Inventor FENG

Group Art Unit 2747

Examiner Name

Attorney Docket Number 22010-127

RECEIVED

JUN 23 2003

Technology Center 2600

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Application of Cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
MOH		5,383,915	01-24-1995	Adams	
MOH		5,454,838	10-03-1995	Vallana et al.	
MOH		5,507,781	04-16-1996	Kroll et al.	
MOH		5,550,923	08-27-1996	Hotvet	
MOH		5,663,727	09-02-1997	Vokac	
MOH		5,721,783	02-24-1998	Anderson	
MOH		5,734,976	03-31-1998	Bartschi et al.	
MOH		5,755,748	05-26-1998	Borza	
MOH		5,833,603	11-10-1998	Kovacs et al.	
MOH		5,878,147	03-02-1999	Killion et al.	
MOH		5,889,870	03-30-1999	Norris	
MOH		5,991,419	11-23-1999	Brander	
MOH		6,010,532	01-04-2000	Kroll et al.	
MOH		6,068,589	05-30-2000	Neukermans	
MOH		6,118,882	09-12-2000	Haynes	
MOH		6,137,889	10-24-2000	Shennib et al.	
MOH		6,141,591	10-31-2000	Lenarz et al.	
MOH		6,173,062	01-09-2001	Dibachi et al.	
MOH		6,217,508	04-17-2001	Ball et al.	
MOH		6,222,927	04-24-2001	Feng et al.	
MOH		6,223,018	04-24-2001	Fukumoto et al.	
MOH		6,229,900	05-08-2001	Leenen	
MOH		6,261,224	07-17-2001	Adams et al.	
MOH		6,275,596	08-14-2001	Fretz et al.	

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Application of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>4</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				

Examiner  
SignatureDate  
Considered

9/3/03

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, D.C. 20231.





Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

<b>Substitute for form 1449A/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	09/193,158
				Filing Date	November 16, 1998
				First Named Inventor	FENG
				Group Art Unit	2747
				Examiner Name	
Sheet	4	of	4	Attorney Docket Number	22010-127

**RECEIVED**  
**JUN 23 2003**  
**Technology Center 2600**

PUBLICATIONS		
Examiner Initials*	Cite No. <sup>1</sup>	
MOH		CAPON, J., "High-Resolution Frequency-Wavenumber Spectrum Analysis", <i>Proceedings of the IEEE</i> , 57(8):1408-1419 (August 1969)
MOH		FROST, Owen Lamont III, "An Algorithm for Linearly Constrained Adaptive Array Processing", <i>Proceedings of the IEEE</i> , 60(8):926-935 (August 1972)
MOH		GRIFFITHS, Lloyd J. and JIM, Charles W., "An Alternative Approach to Linearly Constrained Adaptive Beamforming", <i>Transactions on Antennas and Propagation</i> , AP-30(1):27-34 (January 1982)
MOH		HOFFMAN, M.W.; TRINE, T.D.; BUCKLEY, K.M. and VAN TASELL, D.J. "Robust adaptive microphone array processing for hearing aids: Realistic speech enhancement", <i>The Journal of the Acoustical Society of America</i> , 96(2)(1):759-770 (August 1994)
MOH		KOLLMEIER, Birger; PEISSIG, Jürgen and HOHMANN, Volker, "Real-time multiband dynamic compression and noise reduction for binaural hearing aids", <i>Journal of Rehabilitation Research and Development</i> , 30(1):82-94 (1993)
MOH		LINK, Michael J. and BUCKLEY, Kevin M., Prewhitening for intelligibility gain in hearing aid arrays, <i>The Journal of the Acoustical Society of America</i> , 93(4)(1):2139-2145 (April 1993)
MOH		PEISSIG, Jürgen and KOLLMEIER, Birger, "Directivity of binaural noise reduction in spatial multiple noise-source arrangements for normal and impaired listeners", <i>The Journal of the Acoustical Society of America</i> , 101(3):1660-1670 (March 1997)
MOH		ZIMMERMAN, T.G., "Personal Area Networks: Near-field intrabody communication", <i>IBM Systems Journal</i> , 35(3,4):609-617 (1996)

Examiner Signature		Date Considered	9/3/03
--------------------	--	-----------------	--------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, D.C. 20231.